Listing of the Claims:

1-9 (canceled)

10. (Currently amended) A method of ~~manufacturing a carbonaceous article~~ growing a carbon fiber, the method comprising:

contacting a carbon-containing precursor with a [metal] catalyst bed to form ~~the carbonaceous article~~ a carbon-based fiber;

applying a magnetic field near the [metal] catalyst bed during the formation of the ~~carbonaceous article~~ fiber to substantially confine the catalyst to the bed; and

separating the formed ~~carbonaceous article~~ fiber from the ~~metal~~ catalyst bed.

11. (Original) The method according to claim 10 comprising applying the magnetic field at a distance to produce a magnetic field of about several hundred gauss to influence the catalyst.

12. (Original) The method according to claim 10 comprising applying a magnetic field of no less than about 100 gauss.

13. (Currently amended) The method according to claim 10 comprising heating the ~~metal~~ catalyst bed from about 100 °C to about 1000 °C.

14. (Currently amended) The method according to claim 10 comprising contacting the ~~metal catalysts~~ catalyst bed with a hydrocarbon as the carbon-containing precursor.

15. (Original) The method according to claim 10 comprising contacting the carbon-containing precursor with an iron, nickel or cobalt-based catalyst.

16. (Previously presented) A method of manufacturing a carbonaceous article, the method comprising:

contacting a carbon-containing precursor with a metal catalyst to form the carbonaceous article;

applying a magnetic field near the metal catalyst during the formation of the carbonaceous article; and

separating the formed carbonaceous article from the catalyst by applying a stream of gas.

17. (Currently amended) The method according to claim 10 comprising forming a ~~carbonaceous article~~ fiber having a cross-section of less than one micron.

18. (Currently amended) The method according to claim 10, comprising:

contacting the carbon-containing precursor with a nanosized metal catalyst at a temperature of from about 100 °C to about 1000 °C to form a nanostructured ~~carbonaceous article~~ carbon-based fiber having an aspect ratio of at least 2; and

applying a magnetic field of at least 100 gauss near the catalyst bed during the formation of the ~~carbonaceous article~~ fiber.

19. (Currently amended) A method of a using a catalyst in a catalyst bed for ~~producing carbonaceous articles~~ growing a carbon-based fiber, the method comprising:

contacting a carbon-containing precursor with a catalyst bed to form a first ~~carbonaceous article~~ carbon-based fiber;

applying a magnetic field near the catalyst bed during the formation of the first ~~carbonaceous article~~ carbon-based fiber to substantially confine the catalyst to the bed;

separating the formed first ~~carbonaceous article~~ carbon-based fiber from the catalyst bed; and

reusing the catalyst bed to form a second ~~carbonaceous article~~ carbon-based fiber.

20. (Currently amended) The method according to claim 19 comprising reusing the catalyst bed to form the second ~~carbonaceous article~~ carbon-based fiber without adding catalyst to the catalyst bed.